



DEPARTMENT OF WATER RESOURCES
EXAMINATION ANNOUNCEMENT



The Department of Water Resources offers Equal Opportunity for all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or sexual orientation.

It is an objective of the State of California to achieve a drug-free State workplace. Any applicant for State employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service and the special trust placed in public servants.

LAND AND WATER USE SCIENTIST
OPEN STATEWIDE

FINAL FILING DATE	June 6, 2011 Application forms (STD 678) must be postmarked, submitted in person, or submitted online no later than the final filing date. Applications postmarked, personally delivered, or filed online after the final filing date will not be accepted for any reason. FAXED APPLICATIONS WILL NOT BE ACCEPTED.
WHO SHOULD APPLY	This is an open examination. Applications will not be accepted on a promotional basis.
HOW TO APPLY	Examination Applications (Form STD 678) may be mailed, submitted in person, or submitted online. ❖ APPLY ONLINE: To access the electronic bulletin, go to (http://jobs.ca.gov/CASPB/sup/BulPreview.asp?R1=115699&R2=00103084&R3=1WR35D) Click on the Apply Online link at the bottom of the bulletin. If you are a new user, you will need to create a profile. If you have already created a profile, click on the "registered previously" button and follow the instructions to submit an application. MAILING ADDRESS: Department of Water Resources P.O. Box 942836 Sacramento, CA 94236-0001 FILE IN PERSON: Department of Water Resources 1416 9th Street, Room 320 Sacramento, CA 95814 DO NOT SEND APPLICATIONS TO THE STATE PERSONNEL BOARD OR DEPARTMENT OF WATER RESOURCES' FIELD OFFICES. Applications are available at Department of Water Resources' (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm , local office of the Employment Development Department, the State Personnel Board (SPB), and the SPB website: www.spb.ca.gov/jobs
IDENTIFICATION REQUIRED	Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.
SPECIAL TESTING ARRANGEMENTS	If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the "Application for Examination". You will be contacted to make specific arrangements.
SALARY RANGE	Range A \$3193 - \$3673 Range B \$3738 - \$4503
ELIGIBLE LIST INFORMATION	An open statewide eligible list will be established for the Department of Water Resources. The list will be abolished 12 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.
EXAMINATION DATES	The examination will consist of a Qualifications Appraisal Interview. It is anticipated interviews will be held during July/August 2011.
REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION	NOTE: All applicants must meet the minimum qualifications for this examination by the final filing date, June 6, 2011. Education: Possession of a bachelor's or advanced degree from a recognized institution with a major in one of the following academic areas is required: water science, soil science, irrigation, hydrology, agronomy, natural resource science, physical geography, or a closely related scientific discipline. Registration as a senior in a recognized institution will admit applicants to the examination, but they must produce a bachelor's degree in a major listed above before being considered eligible for appointment.)
POSITION DESCRIPTION	<p>A Land and Water Use Scientist in Range A perform less responsible professional office and field work under close supervision, with work products closely checked by supervisors. In accordance with detailed instructions and specific standards, incumbents gather data on agricultural, urban, and environmental water and land uses; perform preliminary analysis, research, surveys, investigations, and studies of less difficulty. Tasks include collecting agricultural, urban, and environmental data in the field for the determination of applied water and evapotranspiration requirements and impacts of water conservation and the digital storage of these data in departmental files. Incumbents will prepare preliminary drafts of reports and routine correspondence; answer questions of a routine and minor nature from the public; and do other related work. Work at this level is characterized by a reliance on detailed instructions and assistance from lead persons and supervisors in the application of proven techniques and methodologies to assigned work.</p> <p>A Land and Water Use Scientist in Range B provide assistance in professional office and field work; collect data on agricultural, urban, and environmental land and water uses; perform analysis, research, surveys, investigations, and studies of average difficulty. Tasks include providing input into the procedures and participating in the collection of data in major studies; performing preliminary analysis of historic and current data for the determination of agricultural, urban, and environmental applied water and evapotranspiration requirements, soil and water quality, soil moisture relationships, agrometeorology, infiltration rates, drainage problems, and the impacts of water conservation on demands; utilizing aerial and satellite imagery interpretation methodologies for data collection; participating in the digital storage and analyses of land and water use and water conservation data with GIS software; and assisting in the development of data bases. Incumbents will write preliminary reports; prepare routine correspondence and answer questions of a routine nature from the public; and do other related work. Work at this level is generally characterized by a reliance on detailed instructions from lead persons and supervisors and proven techniques and methodologies. Incumbents have increased responsibilities and can provide input to lead persons and supervisors on ways to improve the techniques and methodologies.</p> <p><i>Positions exist statewide with the Department of Water Resources.</i></p>

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

EXAMINATION INFORMATION	This examination will consist of a Qualifications Appraisal Interview – Weighted 100.00% . In order to obtain a position on the eligible list, a minimum rating of 70.00% must be attained. COMPETITORS WHO DO NOT APPEAR FOR THE INTERVIEW WILL BE DISQUALIFIED.
SCOPE OF EXAMINATION	<div>Qualifications Appraisal Interview – Weighted 100.00%</div> <div>In addition to evaluating the competitors' relative abilities as demonstrated by quality and breadth of experience, emphasis in the examining interview will be on measuring competitively, relative to job demands, each competitor's:</div> <div>A. Knowledge of:<div><div>1. Principles of soil, water, agronomy sciences related to irrigation and land and water use.</div><div>2. Methods used in mapping of agricultural and urban land uses and soil surveys and classification.</div><div>3. California crops and crop ecology, both dry-farmed and irrigated.</div><div>4. The effect of soil and water on land use practices.</div><div>5. Basic soil-plant-water relationships.</div><div>6. Soil and water quality principles.</div><div>7. Agricultural and urban water use efficiency principles.</div><div>8. Water recycling.</div><div>9. Evapotranspiration, evaporation, ET of applied water, and consumptive use.</div><div>10. Irrigation and drainage relationships.</div><div>11. Managed wetlands water use.</div><div>12. Effects of socioeconomic conditions on water use.</div><div>13. Methods for estimating current and future urban, agricultural, and managed wetlands water use.</div><div>14. Water use efficiency program implementation strategies and water savings potential.</div><div>15. Digital land and water use data resources.</div><div>16. Geographic Information Systems software applications.</div></div><div>B. Ability to:<div><div>1. Collect and evaluate data and prepare reports.</div><div>2. Interpret aerial photographs and remotely sensed data.</div><div>3. Establish and maintain cooperative relations with those contacted in the course of work; including Federal, State, local agencies and the public.</div><div>4. Prepare correspondence, metadata, articles, and reports.</div><div>5. Map reading.</div><div>6. Map, classify, and digitize agricultural, urban and environmental land uses, soils and other natural resources.</div><div>7. Assist in the collection of data and preparation of reports on land and water use surveys and conservation practices.</div><div>8. Estimate the water requirements for various agricultural, urban, and environmental uses for regional water balances.</div><div>9. Applied scientific methods and principles.</div><div>10. Communicate effectively.</div><div>11. Make oral presentations.</div></div></div></div>
VETERANS PREFERENCE	Veterans Preference will be granted in this examination.

GENERAL INFORMATION

The Department of Water Resources reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service law and rules and all competitors will be notified.

For any examination without a written feature it is the candidate's responsibility to contact the Selection Services Section of the Department of Water Resources, (916) 653-4838 three weeks after the final filing date if he/she has not received a progress notice.

Applications are available at Department of Water Resources' offices, local office of the Employment Development Department, the State Personnel Board, and the SPB web site: www.spb.ca.gov.

If you meet the requirements stated on the reverse, you may take this examination, which is competitive. Possession of the requirements for admittance to the examination does not assure a place on the eligible list. Your performance in the examination described on this bulletin is compared to established rating criteria. All candidates who pass will be ranked according to their scores and placed on the eligible list.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.

Examination Locations: When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

If a candidate's notice of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open eligible list. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference credits) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.

Devices for Communications Impairment
TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. TDD: (916) 653-1804; California Relay Service: 1-800-735-2929 (TDD); 1-800-735-2922 (Voice)

For information regarding this examination, please contact Brandon Littlejohn at (916) 653-7109.